



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000086285** | Submit Date: **10/11/2019** | Call Sign: **WFUP** | Facility ID: **25395** | FRN: **0016496481** | State: **Michigan** | City: **VANDERBILT**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/16/2019** | Expiration Date: **10/18/2019** | Filing Status: **InActive**

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	Yes
	Indicate reason for fee exemption:	Section 1.1116(a)/Incentive Auction Filing Requirement
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CADILLAC TELECASTING CO. Doing Business As: CADILLAC TELECASTING CO.	Alexander Bolea PO Box 627 CADILLAC, MI 49601 United States	+1 (231) 775- 3478	JRNBOLEA@AOL. COM	Corporation

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact
Representatives
(3)

Contact Name	Address	Phone	Email	Contact Type
William T. Godfrey , Jr . <i>Consulting Engineers</i> Kessler and Gehman Associates, Inc.	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607 United States	+1 (352) 332-3157	bill@kesslerandgehman.com	Technical Representative
Lawrence Charles O'Donnell <i>Chief Engineer</i> Cadillac Telecasting Co.	Lawrence O'Donnell PO Box 627 Cadillac, MI 49601 United States	+1 (231) 775-3478	LarryODonnell@9and10news. com	Technical Representative
Gregg P Skall Womble Carlyle Sandridge & Rice, LLP	Gregg P. Skall, Esq. 1200 19th Street, N.W Suite 500 Washington, DC 20036 United States	+1 (202) 857-4441	gskall@wcsr.com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	25395
	State	Michigan
	City	VANDERBILT
	DTV Channel	45
	Designated Market Area	Traverse City-Cadillac
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	2

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1000437
Coordinates (NAD83)	Latitude	45° 10' 12.0" N+
	Longitude	084° 45' 04.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	152.0 meters
	Support Structure Height	143.0 meters
	Ground Elevation (AMSL)	470.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	145.3 meters
	Height of Radiation Center Above Average Terrain	286.6 meters
	Height of Radiation Center Above Mean Sea Level	615.3 meters
	Effective Radiated Power	26 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005708
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	TFU-8WB-R S230
	Rotation	0 degrees
	Electrical Beam Tilt	1.05
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.268	90	0.889	180	0.894	270	0.265
10	0.292	100	0.926	190	0.851	280	0.319
20	0.378	110	0.959	200	0.802	290	0.403
30	0.481	120	0.983	210	0.742	300	0.476
40	0.581	130	0.998	220	0.669	310	0.517
50	0.661	140	0.999	230	0.581	320	0.517
60	0.735	150	0.986	240	0.480	330	0.476
70	0.795	160	0.962	250	0.375	340	0.404
80	0.846	170	0.931	260	0.288	350	0.321

Additional Azimuths

Degree	V _A
267	0.263
135	1.000
1	0.267

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Larry O'Donnell <i>Chief Engineer</i> 10/11/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>Purpose of WFUP-D45 STA.pdf</u>	Applicant	General Information	Purpose of Engineering STA
<u>WFUP-D45 Interim Antenna (TFU-8WB S230 DASP).pdf</u>	Applicant	General Information	Dielectric Antenna Electrical & Mechanical Data